PATENT ABSTRACTS OF JAPAN

(11)Publication number: 01-122242 (43)Date of publication of application: 15.05.1989

(51)Int.Cl. H04L 27/00

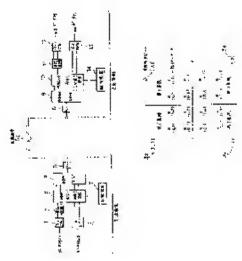
(21)Application number: **62-280709** (71)Applicant: **NEC CORP**

(22) Date of filing: 05.11.1987 (72) Inventor: TAKAHASHI KUNIHIKO

(54) RADIO DIGITAL TRANSMISSION/RECEPTION SYSTEM

(57) Abstract:

PURPOSE: To simplify the whole of a transmission/reception system by devising the processing of an input data string to use a MODEM of M-level OAM as it is at the time of switching between M-level QAM and four-phase PSK modulation. CONSTITUTION: When the quality of a line is deteriorated by the degradation of the radio propagation state, controllers 7 and 14 in transmission and reception sides are operated. A switching device 3 of 16-level QAM(quadrature amplitude modulation)-four phase PSK in a transmission side T ignores the input of two strings corresponding to a second data string d2 and performs coding only with quadrature discrimination bits B1~B4 as the input of two strings corresponding to a first data string d1. Since the data of a third data string d3 consists of only information of quadrature discrimination bits B1~B4 in the reception side R, error in output data of the third data string d3 is reduced even



if the line state is bad. Thus, the whole of the transmission/reception system is simplified.